



## Dispensable Thermal Conductive Gel series

### 【Thermal Gap filler】

# DATA SHEET



- Product picture -

The Dispensable Thermal Gel cures to a flexible rubber elastomer and suit for the protection of electrical/electronic applications where heat dissipation is very important. In particular, it is suitable when the different components share a radiator. It can be automatically dispensed and realize automatic production. The Dispensable Thermal Gel will not pollute the Component because it is easy to peel after curing and rework.

#### FEATURES:

- High thermal conductivity, low thermal resistance
- Use dispensable pad to replace traditional fabricated pad
- Being capable of printed through a variety of manual or automated process
- Can be dispensed or printed through a variety of manual or automated process
- Can be dispensed or coated into a variety of thickness and shapes
- Soft, relieving stress and shock mitigation
- Desired thickness is maintained after curing

#### APPLICATIONS:

- Semiconductor and radiators
- Cooling electronic devices in LED lamps, luminaries, automotive and consumer electronics
- Being dispensed or coated into a variety of thicknesses and shapes
- CPU and GPU

#### APPLICATION METHODS:

- Dispensable Thermal Gel is designed to be applied by various methods including automated dispensing, stencil printing and Manual coating.

The series of products are accord with standards

**STORAGE TEMPERATURE:** 0~10°C

**SHELF LIFE:** 1 years (@4°C)

#### CURED, STORAGE CONDITIONS:

- It will be completely cured for about 72 hours at room temperature. The viscosity of the Dispensable Thermal Gel does not change within 8 hours, but it begins to cure by a gradual increase in viscosity after 8 hours, followed by gelation and conversion to its final elastomeric state.
- In order to ensure the stability of product performance, it should be stored at a temperature of less than 4 °C (including 4 °C). If the product can't be completely used, the unused product should be sealed and refrigerated at temperatures below 4 °C (including 4 °C) so that it can be re-used, but the overall operating time is 8 hours or less than 8 hours.

#### PACKING SPECIFICATIONS:

- 30cc/ 55cc/ 300cc

SHENZHEN HFC SHIELDING PRODUCTS CO.,LTD.

#### PROPERTIES

Items	Parameter	Unit	Test Method
	HTDG-250		
Appearance	White pasty substance	-	Visual
Density	2.6(±0.5)	g/cm <sup>3</sup>	ASTM D 792
Hardness	30(±5)	Shore C	ASTM D 2240
Tensile Strength	≥0.4	Mpa	ASTM D 412
Elongation	≥200	%	ASTM D 412
Curing Time	120(50°C), 55(70°C), 25(120°C)	min	-
50% Instantaneous compressive stress	<10	Psi	GB/T 7757-2009
50% Static compressive stress	<1	Psi	GB/T 7757-2009
Adhesive force	<15	Psi	-
UL Certification	V0	-	UL94
Operating Temperature	-50~150	°C	-

#### THERMAL CHARACTERISTIC

Thermal Conductivity	2.5(±0.2)	W/m-K	ASTM D 5470
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#### ELECTRICAL PROPERTIES

Breakdown Voltage	≥8(@1.5mm)	KV	ASTM D 149
Volume Resistivity	≥1.0*10 <sup>13</sup>	Ω.cm	ASTM D 257

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